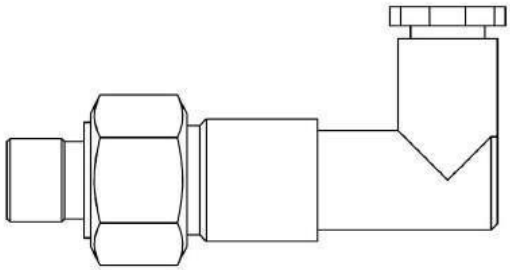
# HISP

## PRESSURE TRANSMITTER

### 1 – OPERATING PRINCIPLES



The HISP pressure transmitters give an output signal (voltage or current) proportional to the input hydraulic pressure.

They are designed and manufactured as a single solid body of stainless steel, and are suited for industrial use.

The HT pressure transmitters meet the latest CE requirements and offer a broad range of adjustments according to the electrical settings and the hydraulic connection.

### 2 – FEATURES

| Model | Adjustment range | Test pressure | Breaking pressure |
|---|---|---|---|
| HISP-060/...CE | 0 to 60 bar | 2 x nominal pressure | 400 bar |
| HISP-100/...CE | 0 to 100 bar | | 500 bar |
| HISP-250/...CE | 0 to 250 bar | | 1000 bar |
| HISP-400/...CE | 0 to 400 bar | | 1500 bar |
| HISP-600/...CE | 0 to 600 bar | | 2000 bar |

## 3 – IDENTIFICATION

| HISP | - | | / | | - | | - | CE |
|---|---|---|---|---|---|---|---|---|

**Pressure transmitter**

**Nominal pressure:**
060 = 0 to 60 bar
100 = 0 to 100 bar
250 = 0 to 250 bar
400 = 0 to 400 bar
600 = 0 to 600 bar

**Output signal:**
I = 4 to 20 mA (current)
V = 0 to 10 VDC (voltage)

**Connection:**
D = Hirschmann (standard)
M = Metric M12x1; 4 pins

**Conformity with CE**

## 4 – TECHNICAL DATA

| | |
|---|---|
| Sensor | Thin film in steel |
| Measurement range | 0 to 60 bar for 0 to 600 bar |
| Output signal | 4 to 20 mA; 0 to 10 VDC |

| | |
|---|---|
| Operating pressure | -25°C to +85°C |
| Average temperature | -25°C to +125°C |
| Protections | IP65; IP67 |
| Humidity | Max 95% relative |
| Vibration | 25 g (20 to 2000 Hz) |
| Shock | 100 g / 11 ms |

| | |
|---|---|
| Sensor material | 1.4542 (AISI 630) |
| Habitation material | 1.4301 (AISI 304) |
| O-ring material (medium contact) | NBR |
| Assembly torque | 25 Nm |
| Weight | ~50 g |

| | |
|---|---|
| Emission | EN/EC 61000-6-4 |
| Imunity | EN/EC 61000-6-2 |

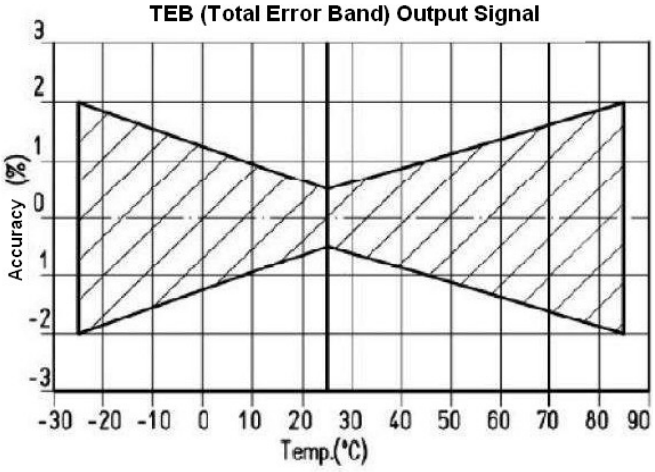
| |
|---|
| Output 4 to 20 mA / input voltage 24 (9 to 32) VDC |
| Output 0 to 10 VDC / input voltage 24 (15 to 32) VDC |

| | |
|---|---|
| Rising time | Type 1 ms / 10 to 90% nominal pressure |
| Switch over delay | 1 s |

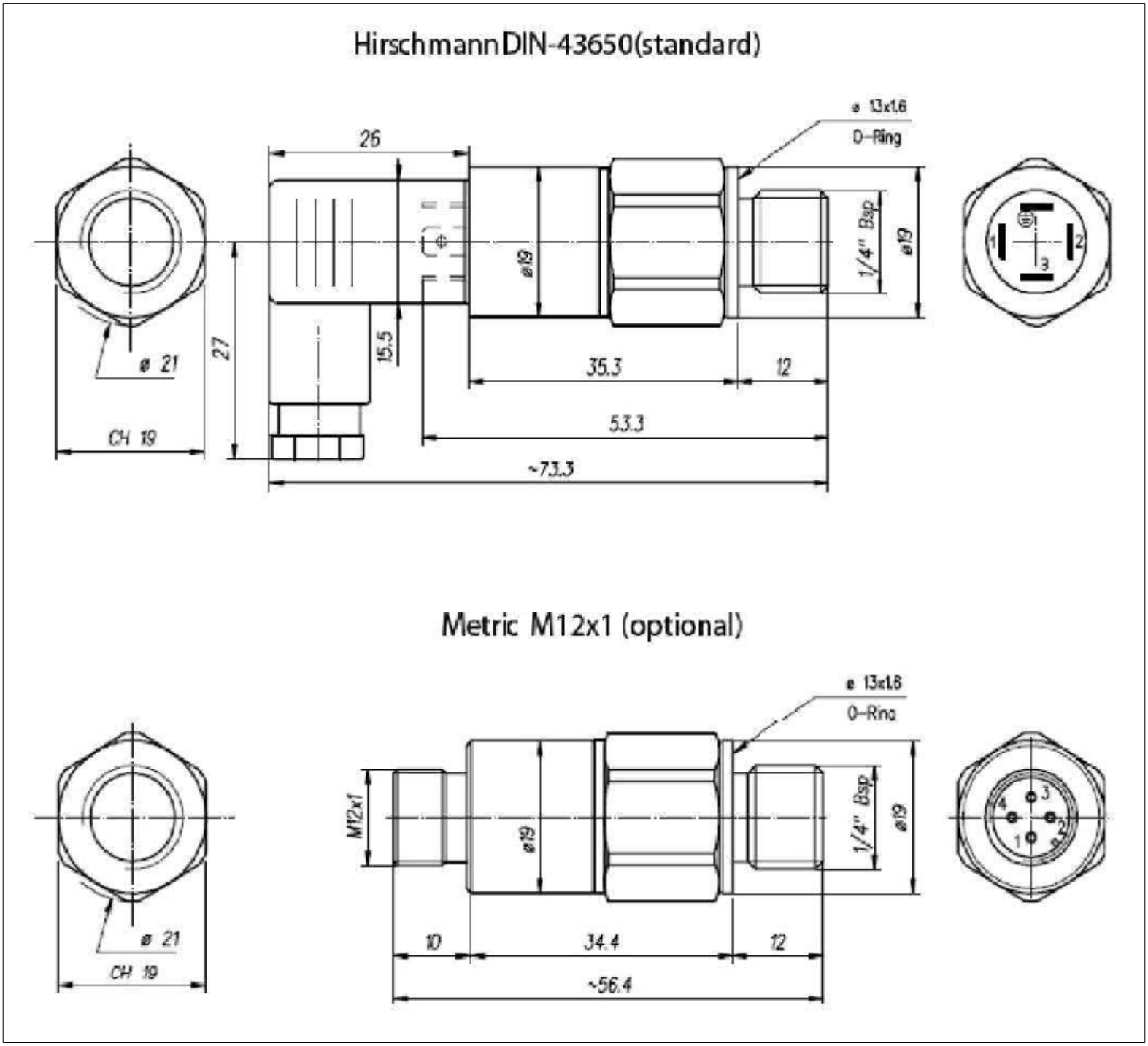
| Output | Charge resistance |
|---|---|
| 4 to 20 mA | $(U_{supply} – 9V) / 20$ mA |
| 0 to 10 VDC | ≥ 5 kΩ |

| | |
|---|---|
| TEB @ -25°C +85°C | ±2 [%fs Typ] |
| Accuracy @ +25°C | ±0.5 [%fs Typ] |
| NLH @ +25°C (BSL through 0) | ±0.3 [%fs Typ] |
| TC point zero and spam | ±0.03 [%fs Typ] |
| Long term stability 1 year @ +25°C | ±0.2 [%fs Typ] |

| Connection / Output signal | Hirschmann DIN-43650C IP65 | Metric M12x14-pins p67 |
|---|---|---|
| Shield<br>Us Supply +<br>Us Supply –<br>earth/housing | 2<br>1<br>(4) | 1<br>3<br>(4) |
| Shield<br>Us Supply +<br>Out (Output)<br>Us Supply –<br>earth/housing | 1<br>2<br>3<br>(4) | 1<br>2<br>3<br>(4) |



**5 – DIMENSIONS**




1 – HT reserves the right to change information of this catalog without previous warning.
2 – Copy is forbidden.
3 – If not indicated, dimensions in milimetres.